XI *An* Obſervation *of three* Mock-Suns *ſeen in* London, Friday, Sept. 17, 1736. *by* Martin Folkes, *Eſq*; *V. Pr.* R. S.

TAB. II. FIG. 5.

AS I was reading this Morning a little after ſeven o'Clock, in a Room looking towards the North-Eaſt, I accidentally took Notice of an odd Stream of colour'd Light, ſhooting upwards from the Sun, as I then thought, ſhining through a thin wateriſh Cloud; but recollecting the Appearance was ſeveral Degrees more northerly than the Sun's true Place at that Time, I immediately went to the Window, and found what I had taken for the Sun was a *Parhelion* ſhooting out a ſhort horizontal Stream or Tail towards the North; the Sun itſelf ſhining pretty bright and clear at the ſame Time. I alſo obſerved, the Stream I had at firſt ſeen, was part of an Arch concentric to the Sun, and paſſing through the *Parhelion:* This Arch was for a good Way tolerably defin'd, and ting'd with Red on the Inſide, and a blueiſh White on the other. I then caſt my Eye to the other Side the Sun, where I perceiv'd a ſecond *Parhelion*, at the ſame Diſtance from him, towards the South, tho' not yet ſo bright as the firſt. I then went up to my Leads, my Proſpect being too confin'd below: Where ſoon after I was come, I found the *Phænomenon* conſiderably to improve, the Arch round the Sun forming itſelf into more than a Semicircle, reaching almoſt to the *Horizon* Northward, and with very little Diſcon-

tinuance beyond the ſecond *Parhelion* towards the South. I then began to perceive a third *Parhelion* where the Circle ſurrounding the Sun would have been cut by the Vertical paſſing through him; and in the ſame Place his Circle was touch'd by the Arch of another, in ſome ſort confounding itſelf with it in the Place where the third *Parhelion* appear'd: This was fainter a good deal than the other two, and the laſt Arch I have been ſpeaking of extended but a little way, ſo as for it to be difficult to determine where its Centre lay; this Arch was colour'd alſo, but with Red on its convex Part. I had ſome Time before this began to ſee alſo another Circle, ſurrounding the Sun at the Diſtance of about 45 Degrees, which appear'd to be about twice the Diſtance of the firſt; and this alſo encreaſing whilſt I was conſidering it, became little leſs than a Semicircle, being alſo ting'd with Red like the other on the inner Side. When this Circle had thus pretty well form'd itſelf, I alſo diſcover'd the Arch of a fourth, touching this, or rather confounding itſelf with it, in its higheſt Part, and ſurrounding, as it ſeem'd, the *Zenith*. Of this laſt Circle I ſaw, when it was moſt complete, better than half, and it was much ſtronger colour'd than any of the others, being of a bright Red on its convex Part, and a good Blue on the Concave. In the Part where this Circle confounded itſelf with the larger of thoſe that were concentric to the Sun, their common Part was nearly white, and brighter than the reſt, though hardly enough to call it a forth *Parhelion*. The principal *Mock-Suns* continued tolerably bright till near eight o'Clock, the ſouthern Part of the *Phænomenon* improving as the northern decayed; and the ſouthern

Parhelion

Parhelion was once ſo bright, that, taking the Advantage of a Place where a Chimney ſhaded the true Sun, it caſt a very viſible Shadow: The white and luminous horizontal Tail alſo, that went from this *Parhelion*, was much longer than that of the other, reaching at one Time beyond the outer of the two concentric Circles. The *Parhelia* themſelves, tho' very luminous, were, however, never defin'd with any Exactneſs as to their Diſcs, but look'd as we ſometimes ſee the Sun through a thin whitiſh Cloud, and they were themſelves of a reddiſh Colour on that Side next the true Sun. About Eight the *Phænomenon* was ſenſibly decreas'd, and had entirely diſappear'd by 20 Minutes after.

XII. *De* Ruptura *Inteſtini* Ilei *ex contuſione externa ſine vulnere externè inflicto ex Litteris à* Chriſtiano Wolfio, *Prof. Mathem.* Marpurg. *Reg. Soc.* Lond. *& Acad. Reg. Scient.* Paris. *Socio ad* Gulielmum Rutty, *M. D. Soc. Reg.* Lond. *olim Secret. conſcriptis excerpta Obſervatio.* Mart. 3, 1731.

* * * IN rebus naturalibus nihil mihi hactenus occurrit, quod ſit notatu dignum, niſi quod anno ſuperiori funeſto quodam caſu operarius quidam vitam finiit. Saxum ſcilicet in ventrem infimum delapſum eum percuſſit, ut locus affectus in conſpectum quidem

Fig. 1.

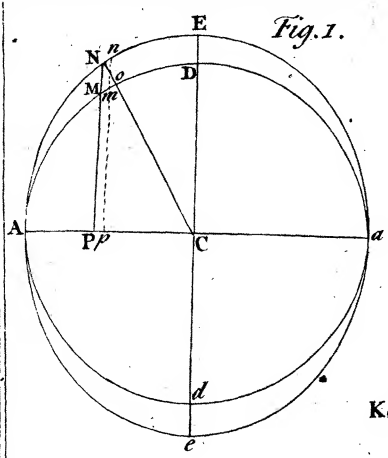


Fig. 2.

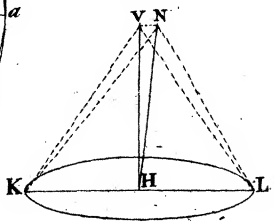


Fig. 3.

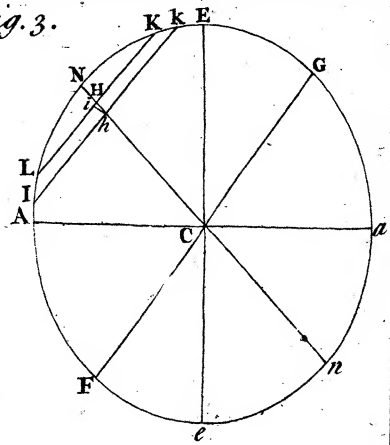


Fig. 4.

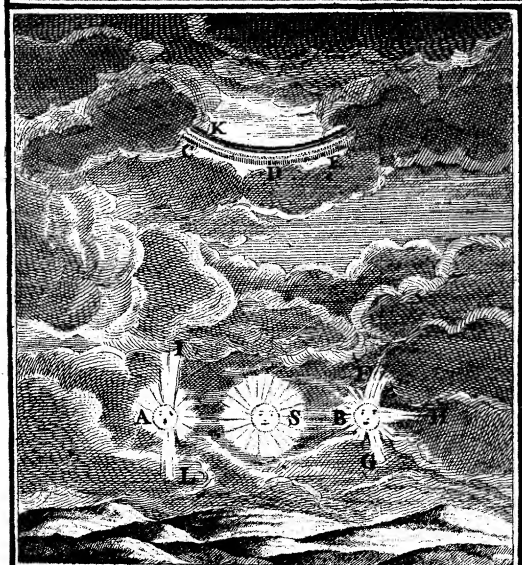
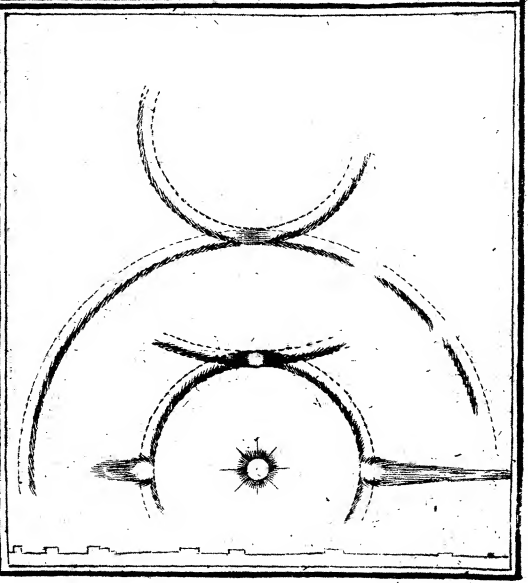


Fig. 5.



J. Mynde sc.